

CLAIMS

What is claimed is:

1. An electro-optical device substrate, comprising:
a base, and
a plurality of wirings formed on the base,
wherein at least one of the wirings has a portion whose width gradually increases from a first side of the base to a second side of the base opposing the first side.
2. The electro-optical device substrate according to Claim 1,
wherein the line width of at least one of the wirings increases continuously and gradually.
3. The electro-optical device substrate according to Claim 1,
wherein among the plurality of wirings extending from the first side to the second side, the line width is greater for wirings extending nearer the second side.
4. The electro-optical device substrate according to Claim 1,
wherein each of the plurality of wirings has a bent portion, and
wherein the line width of the bent portion is greater than that of a portion other than the bent portion.
5. The electro-optical device substrate according to Claim 1,
wherein gaps among the plurality of wirings are nearly uniform for all of the wirings.

6. The electro-optical device substrate according to Claim 1, wherein the plurality of wirings further comprises extended wirings for transmitting signals to electrodes.

7. The electro-optical device substrate according to Claim 1, wherein the plurality of wirings has conductive pads, and the conductive pads are conducted to electrodes on another substrate by a conductive material.

8. The electro-optical device substrate according to Claim 1, wherein the wirings are formed of one of the following: elemental chromium (Cr); a lamination of two layers, chromium (Cr) and tantalum (Ta); and a lamination of three layers, ITO, chromium (Cr), and tantalum (Ta).

9. An electro-optical device, comprising the electro-optical device substrate according to Claim 1 and an electro-optical material layer disposed on the electro-optical device substrate.

10. The electro-optical device according to Claim 9, wherein one side of the electro-optical device substrate is a side to which a wiring substrate is connected, and

wherein the plurality of wirings is disposed in a region near edges of two sides adjacent to the one side and also is extended along each of the edges.

11. The electro-optical device according to Claim 9, further comprising a

counter substrate opposing the electro-optical device substrate,

wherein the wirings are connected to electrodes disposed on the counter substrate by a conductive material.

12. The electro-optical device according to Claim 11,
wherein the electro-optical material is a liquid crystal.

13. An electronic apparatus, comprising the electro-optical device according to Claim 9 and control means for controlling the operation of the electro-optical device.

14. The electro-optical device substrate according to Claim 1,
wherein as the length of the plurality of wirings from the first side to the second side increases, the wiring width of the entire region thereof increases.

15. The electro-optical device according to Claim 11,
wherein the counter substrate has a plurality of electrodes and electrode wirings connected to the plurality of electrodes,

wherein the plurality of electrode wirings is connected to the respective plurality of wirings on the electro-optical device substrate by the conductive material, and

wherein a width of each of the plurality of electrode wirings increases as the length of a corresponding wire line on the electro-optical device substrate increases.

16. The electro-optical device according to Claim 15,
wherein the electrode wirings on the counter substrate corresponding to the wirings having a short length have a short line width, so that the wiring resistances are uniform between wirings having a long length and wirings having a short length among the plurality of wirings on the electro-optical device substrate.